



3408.62676

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Hiroyuki Kobayashi
Serial No.: 09/187,700
Conf. No.: 3400
Filed: 11/6/1998
For: STORAGE MEDIUM AND METHOD
AND APPARATUS FOR SEPARATELY
PROTECTING DATA IN DIFFERENT
AREAS OF THE STORAGE MEDIUM
Art Unit: 2137
Examiner: Nguyen, Minh Dieu T.
Patent: 7,051,213
Issued: May 23, 2006

I hereby certify that this paper is being deposited with the United States Postal Service as FIRST-CLASS mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this date.

23 Oct 06 
Date Registration No. 29,367
Attorney for Applicant(s)

REQUEST FOR CERTIFICATE OF CORRECTION UNDER RULE 322

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
ATTN: Certificate of Corrections Branch

Dear Sir:

In accordance with 37 C.F.R. § 1.322, patentees, through their attorneys, respectfully request that a Certificate of Correction be issued in the above-referenced patent.

The errors occurred as a result of mistakes on the part of the Patent and Trademark Office and the changes include the following:

Certificate

OCT 30 2006

of Correction

OCT 31 2006

On the Patent Face:

Under "Foreign Patent Documents" delete "JP 9335182 12/1996" and insert --JP
8335182 12/1996--(PTO-1449 filed 11/6/98).

OCT 31 2006



In the Claims:

Col.11, line 48, delete "key the" and insert --key to the--(Amend. G, claim 1, lines 5-6).

Col. 12, line 5, delete "random key data" and insert --random key-- (Amend. G, claim 1, line 27).

Col. 12, lines 41-42, delete "said writing encrypted random key to d the storage" and insert --said writing said encrypted random key to the storage-- (Amend. G, claim 7, line 2).



REMARKS

A Certificate of Correction incorporating the delineated change is enclosed in duplicate herewith. Since the mistakes were on the part of the Patent and Trademark Office, a Certificate of Correction should be issued without expense to the patentee and such is respectfully requested.

Respectfully submitted,

GREER, BURNS & CRAIN, LTD.

By

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October 23, 2006

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OCT 31 2006

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,051,213
DATED : May 23, 2006
INVENTOR(S) : Kobayashi et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Patent Face:

Under "Foreign Patent Documents" delete "JP 9335182 12/1996" and insert --JP 8335182 12/1996--.

In the Claims:

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PATENT NO 7,051,213

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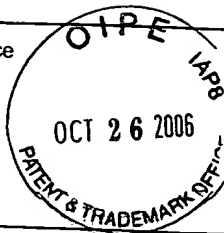
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OCT 8 2005

Form PTO-1449
(Rev. 8-88)U.S. Department of Commerce
Patent and Trademark OfficeINFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)Attorney Docket No.
3408.62676

Serial No.

Applicant: Kobayashi et al.

Filing Date: 11-6-98

Group No.

U.S. PATENT DOCUMENTS

Examiner initial*	Document No.	Date	Name	Class	Subclass	Filing Date

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Subclass	Translation
						Yes No
gn.	6 3 2 1 9 0 4 4	Sep. 12, 1988	Japan			Abs.
gn.	7 8 5 5 7 4	Mar. 31, 1995	Japan			Abs.
gn.	7 1 7 6 1 3 4	Jul. 14, 1995	Japan			Abs.
gn.	8 3 3 5 1 8 2	Dec. 17, 1996	Japan			Abs.
gn.	6 4 2 1 7 6 1	Jan. 25, 1989	Japan			Abs.
gn.	8 6 9 3 5 7	Mar. 12, 1996	Japan			Abs.

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner

Gregory Newton

Date Considered

3-01

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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IN THE CLAIMS:

Please amend claims 1-14 and 16-20, and add new claims 21-28 as follows:

- 1 1. (Currently Amended) A storage medium data protecting
2 method of protecting data on a storage medium having a plurality of unit storage
3 areas, comprising:
4 a step of generating a random key ~~data~~, encrypting ~~the~~ said random
5 key ~~data~~ with a password, and writing ~~the~~ said encrypted random key ~~data~~ to ~~said~~
6 the storage medium;
7 a step of encrypting the data with the generated random key ~~data~~,
8 and writing the encrypted data to ~~said~~ the storage medium;
9 a step of reading ~~the~~ said encrypted key ~~data~~ from ~~said~~ the storage
10 medium;
11 a step of decoding ~~the~~ said encrypted key ~~data~~ with ~~the~~ said
12 password; and
13 a step of reading and decoding the data on ~~said~~ the storage medium
14 with the decoded key ~~data~~,
15 wherein said random key ~~data~~ generating step comprises:
16 a step of generating a different random key ~~data~~ for each of ~~a~~
17 ~~plurality of unit storage~~ area of the plurality of unit storage ~~areas of said storage~~
18 ~~medium~~, so that said each unit storage area is assigned a different random key, and
19 said assignment of said different random key to said each unit storage area being

20 based on a particular unit storage area to which the data, once encrypted, is to be
21 stored;

22 a step of encrypting each ~~said~~ of the different random key ~~data~~ for
23 ~~each unit storage area~~ keys with said password, and

24 a step of writing each ~~said~~ of the encrypted key ~~data~~ to ~~said~~ different
25 random keys to the storage medium when initializing the storage medium,

26 wherein said data encrypting step comprises a step of encrypting the
27 data with ~~the~~ said different random key ~~data~~ corresponding to its said particular
28 unit storage area to write the data, and

29 wherein said data decoding step comprises a step of decoding the
30 data with ~~the~~ said decoded key ~~data~~ corresponding to said particular unit storage
31 area where the data have been read.

1 2. (Currently Amended) A storage medium data protecting
2 method according to claim 1, wherein said random key ~~data~~-generating step
3 comprises a step of generating ~~the~~ said random key ~~data~~-per logic sector on said
4 the storage medium.

1 3. (Currently Amended) A storage medium data protecting
2 method according to claim 1, wherein said random key ~~data~~-generating step
3 comprises a step of generating ~~is-different key data~~ random keys for each writing
4 to said plurality of unit storage areas.

1 7. (Currently Amended) A storage medium data protecting
2 method according to claim 1, wherein said ~~step of writing the said encrypted~~
3 ~~random key data to said the storage medium~~ comprises a step of encrypting the
4 said random key data with a first password, writing the encrypted random key data
5 to said ~~the~~ storage medium, encrypting said first password with a second
6 password, and writing said ~~first the~~ encrypted first password to the storage
7 medium, and said step of decoding the encrypted key data ~~comprises a step of~~
8 decoding said ~~first encrypted~~ first password with said second password, and
9 obtaining said first password, and a step of decoding the ~~said~~ encrypted key data
10 with obtained said first password.

1 8. (Currently Amended) A storage medium data protecting
2 apparatus for protecting data ~~on a storage medium~~, comprising:
3 a storage medium having a plurality of unit storage areas; and
4 a control circuit for reading and writing the data from and to said
5 storage medium,
6 wherein said control circuit has:
7 a write mode of encrypting, after generating a random key data, the
8 said random key data with a password, writing the encrypted key data to said
9 storage medium, encrypting the data with the random key data, and writing the
10 encrypted data to said storage medium;

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